

## ABSTRACT

A perfusion catheter system that allows selective temporary perfusion of small vascular or other anatomic structures arising from a host structure atraumatically. The perfusion device has an elongate body having an afferent end portion for receiving perfusion fluid, an efferent end portion for delivering the perfusion fluid to the branch vessel, and a lumen extending between the afferent and efferent end portions for the passage of fluid. The perfusion fluid is delivered through a hub assembly which provides a secure temporary water-tight seal between the perfusion catheter and the host structure without damage to the tissue, thereby enabling a safe and effective interface with small branch vessels during host artery clamping.

10

10034733-122101